

## OBJECTIVES

- Differentiate external respiration from internal respiration.
- Trace the path of air from the atmosphere to the bloodstream.
- Describe how gases are exchanged in the lungs and transported in the bloodstream.
- Summarize the skeletal and muscular changes that occur during breathing.
- Describe how the rate of breathing is controlled.

## VOCABULARY

respiratory system  
 external respiration  
 internal respiration  
 lung  
 pharynx  
 epiglottis  
 trachea  
 larynx  
 bronchus  
 bronchiole  
 alveolus  
 inspiration  
 diaphragm  
 expiration

# THE RESPIRATORY SYSTEM

The blood transports oxygen from the lungs to cells and carries carbon dioxide from the cells to the lungs. It is the function of the **respiratory system** to exchange gases with the cardiovascular system.

## RESPIRATION

The respiratory system involves both external respiration and internal respiration. **External respiration** is the exchange of gases between the atmosphere and the blood. **Internal respiration** is the exchange of gases between the blood and the cells of the body. Once oxygen is in the cells, the cells use it to break down glucose and make ATP by the process of aerobic respiration. Without oxygen, the body could not obtain enough energy from food to survive. Excess carbon dioxide produced as a waste product of aerobic respiration is toxic to cells and is removed from the cells by internal respiration.

## THE LUNGS

The **lungs** are the site of gas exchange between the atmosphere and the blood. Notice in Figure 46-16 that the right lung has three divisions, or lobes. It is slightly heavier than the two-lobed left lung. The lungs are located inside the thoracic cavity, bounded by the rib cage and the diaphragm. Lining the entire cavity and covering the lungs are pleura, membranes that secrete a slippery fluid that decreases friction from the movement of the lungs during breathing.

### The Path of Air

Refer to Figure 46-16 to trace the path air follows from the atmosphere to the capillaries in the lungs. External respiration begins at the mouth and at the nose. Air filters through the small hairs of the nose and passes into the nasal cavity, located above the roof of the mouth. In the nasal cavity, mucous membranes warm and moisten the air, which helps prevent damage to the delicate tissues that form the respiratory system. The walls of the nasal cavity are also lined with cilia. These cilia trap particles that are inhaled and are eventually swept into the throat, where they are swallowed.



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**Mammals Biology 2004** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 *Kendig's Disorders of the Respiratory Tract in Children E-Book* Robert W. Wilmott,Andrew Bush,Robin R Deterding,Felix Ratjen,Peter Sly,Heather Zar,Albert Li,2018-01-17 Now in a fully updated 9th Edition Kendig s Disorders of the Respiratory Tract in Children by Drs Robert Wilmott Andrew Bush Robin Deterding and Felix Ratjen continues to provide authoritative evidence based information to residents fellows and practitioners in this wide ranging specialty Bringing key knowledge from global experts together in one easy to understand volume it covers everything from the latest basic science and its relevance to today s clinical issues to improving patient outcomes for the common and rare respiratory problems found in newborns and children worldwide Uses succinct straightforward text numerous tables and figures summaries at the end of each chapter and more than 500 full color images to convey key information in an easy to digest manner Contains new chapters reflecting expanding knowledge on the respiratory complications of Down syndrome and other genetic disorders modern molecular therapies for cystic fibrosis and asthma and pulmonary embolism and thromboembolic disease Includes access to a new video library with demonstrations of key procedures Features a new templated format with more descriptive headings and bulleted text for quick reference and navigation Covers today s key issues including the genetic basis of respiratory disease new and emerging respiratory infections interstitial lung diseases in infants and young children technology and diagnostic techniques for pulmonary function tests emerging lung infections and new therapies for cystic fibrosis and asthma Provides up to date instruction on important procedures such as bronchoscopy and pulmonary function testing Highlights the knowledge and expertise of three new editors as well as more than 100 world authorities in the fields of pediatrics pulmonology neurology microbiology cardiology physiology diagnostic imaging critical care otolaryngology allergy and surgery Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices American Journal of Respiratory Cell and Molecular Biology ,1995

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*Evolutionary Gerontology and Geriatrics* Giacinto Libertini, Graziamaria Corbi, Valeria Conti, Olga Shubernetskaya, Nicola Ferrara, 2021-05-25 This book provides concrete scientific basis that we can conceive the possibility of modifying or even completely canceling aging process despite the fact that aging is commonly regarded as the result of the overall effects of many uncontrollable degenerative phenomena The authors illustrate in detail the mechanisms by which cells and the whole organism age Actions by which it is possible or will be possible within a limited time to operate for modifying aging are also debated The discussion is conducted within the frame and the concepts of evolutionary medicine which is also indispensable for distinguishing between the manifestations of aging and i diseases that worsen with age and ii acceleration of normal aging rates caused by unhealthy lifestyle habits and other avoidable factors The book also discusses the impact of aging on overall mortality and the strange situation that according to official statistics aging does not exist as cause of death This book is a turning point between a gerontology and geriatrics conceived as the study and vain treatment of an incurable condition and one in which these disciplines examine the how and why of a physiological phenomenon that can be modified up to a possible total control This means transforming the medical prevention and treatment of physiological aging from the greatest failure to the greatest success of medicine

*Advances in inhalation safety assessment* Victoria Hutter, Ewelina Hoffman, Thomas Hofmann, Mary Catherine McElroy, 2025-09-16 Inhalation toxicology refers to the route of exposure whereby an inhaled substance can cause direct local toxicity to the airways or exert their action systemically following absorption and metabolism Assessing the inhalation safety of substances is applicable to many sectors producing new products with intended or inadvertent inhaled exposure e g pharmaceutical chemical environmental consumer products Limitations with current tools and approaches to assessing inhalation safety prevent a high proportion of these products ever making it to market due to preclinical safety concerns in animals despite not understanding the relevance of these responses in humans Assessing the safety of substances in the lungs requires in depth knowledge of the properties of the inhaled aerosol deposition within the lungs interaction with biological barriers and the innate immune system and translation of these events to human safety As such advancements in inhalation toxicology rely on interdisciplinary research between the interfaces of the biological and physical sciences Assessing the inhalation safety of substances applicable to many areas which traditionally have used different approaches e g pharmaceutical chemical environmental consumer products However the challenges of providing relevant dosing replicating exposure categorizing adaptive and adverse responses and

applicability of human relevant inhalation risk assessment remain a challenge to all sectors This research topic aims to explore new approaches and technologies within inhalation toxicity and other related fundamental research including aerosol characterisation which have the potential to answer the unmet needs within safety assessment [The Journal of Immunology](#) ,2009 *Outlines of Modern Biology* Charles Robert Plunkett,1930 **Proceedings of the Society for Experimental Biology and Medicine** Society for Experimental Biology and Medicine (New York, N.Y.),1930 List of members in each volume **Neurophysiology of Consciousness** LIBET,1993-01-01 and made insignificant in practice by selecting for study simple kinds of experiences which are devoid of emotional content and which can be tested for reliability A simple somatosensory raw feel fulfills these characteristics see papers nos 2 5 In any case if we fail to find ways to use introspective reports in convincingly acceptable studies we would give up the ability to investigate the relation between conscious experience and neural activity something warned against by William James Krech 1969 Another factor in the dearth of direct experimental studies is of course the comparative inaccessibility of the human brain for such purposes Meaningful investigations of the issue in question requires simultaneous study of brain events and introspective reports of experiences in an awake cooperative human subject Analysis by neuropsychologists of pathological lesions in the brain and the related disturbances of conscious functions have contributed much to mapping the possible representations of these functions The non invasive recording of electrical activity with electrodes on the scalp starting from Berger's initial EEG recordings in 1929 has contributed much to the problems of states of consciousness and to various cognitive features associated with sensory inputs but not as much to the specific issue of conscious experience **Biology for Beginners** Truman Jesse Moon,1921 **Proceedings of the First Meeting of Federation of African Societies of Biochemistry & Molecular Biology (FASBMB), September 2-6, 1996, Nairobi, Kenya** Federation of African Societies of Biochemistry & Molecular Biology. Meeting,1998 **Biology** Gary Nathan Calkins,1914 [Magill's Encyclopedia of Science : Animal Life: Lemurs-respiration in birds](#) Carl W. Hoagstrom,2002 Covers various aspects of zoology in four volumes including the behavior class evolution and physiology of both wild and domestic animals **Research Procedures and Data Analysis** James Wilson,F. Clarke Fraser,1978-07 *Dendritic Cells* Michael T. Lotze,Angus W. Thomson,1999 Dendritic Cells is the first definitive book on this subject and brings together the most current information in the field for scientists and clinicians It outlines research studies the first reports of therapeutic applications of dendritic cells and the enormous potential of these unique cells Contributors are from the key research groups around the world who are working on the immunobiology of dendritic cells and in applied areas striving to develop their therapeutic potential

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